

AMSAT News Service Weekly Bulletins

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AMSAT NEWS SERVICE

ANS-225

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The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, the Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on <http://www.amsat.org> publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: [ans-editor \[at\] amsat.org](mailto:ans-editor@amsat.org)

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see:
<https://mailman.amsat.org/postorius/lists/ans.amsat.org/>

ANS-225 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2023 Aug 13

AM1SAT Satellite Contest, September 2023

AMSAT-EA will be on the air on all available satellites with the callsigns AM1SAT and AM2023SAT from September 4th to 17th, 2023 to celebrate the fourth edition of the AM1SAT trophy contest as part of the URE activities within the IberRadio 2023 event, the largest one in the world of amateur radio in Spain and Portugal (<http://www.iberradio.es>), and which will open its doors during the weekend of 16-17 in Avila, a city near Madrid, capital of Spain.

The AMSAT-EA operators will activate the aforementioned callsigns from the different states and autonomous cities of Spain during the said period of time and with the objective in this edition to promote contacts with the maximum number of them.

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972-929-8400

Rooms are available for check-in on Wednesday, October 18 and check out Sunday, October 22.

- Standard room with single King bed is ****SOLD OUT**** ACT FAST! GET YOUR RESERVATIONS NOW!

- Standard room with two Queen beds is \$137.00*

* Rate does not include state and local taxes of 15%

For Phone Hotel Reservations:

Call 972-929-8400. Ask for rate RADIO AMATEUR SATELLITE.

For Online Hotel Reservations click on this link:

<https://www.marriott.com/event-reservations/reservation-link.mi?id=1689956666782&key=GRP&app=resvlink>

Please send your Symposium questions or comments to [info \[at\] amsat \[dot\] com](mailto:info@amsat.com).

We, at AMSAT, are excited to be able to host our 41st annual Symposium this year. We hope that you can join us in celebrating Amateur Radio in Space.

[ANS thanks AMSAT for the above information.]

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Need new satellite antennas? Purchase Arrows, Alaskan Arrows,
and M2 LEO-Packs from the AMSAT Store. When you purchase through
AMSAT, a portion of the proceeds goes towards
Keeping Amateur Radio in Space.
<https://amsat.org/product-category/hardware/>

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International AMSAT Conferences Taking Place

+ AMSAT-UK is pleased to announce that the 2023 Colloquium will take place alongside the RSGB Convention at Kents Hill Park Conference Centre, Milton Keynes on the weekend of 14/15th October 2023.

Full details of the Colloquium will be made available nearer the time on the AMSAT-UK website at <https://amsat-uk.org> As in previous years, the AMSAT-UK Colloquium will run as a separate stream within the RSGB Convention and will include presentations on a variety of satellite and space related topics.

Entrance to the RSGB Convention is managed by the RSGB and you will be required to purchase Day Tickets for the Saturday and/or Sunday to attend the AMSAT-UK Colloquium. These can be booked via the RSGB website at <https://rsgb.org/main/rsgb-2023-convention/> Early bird discounts are being offered by the RSGB via their website.

+ AMSAT-DL was founded in 1973, so this year we can look back on 50 years of space exploration. We have taken this as an opportunity to put this year's symposium in a special setting. Ticket sales are now available at <https://shop.amsat-dl.org/>. The festive conference and symposium will be held Friday, September 15 to Sunday, September 17, 2023.

With a view to the 50-year history of AMSAT-Germany and its mission of promoting amateur radio via satellites, the celebratory conference "From OSCAR 10 to OSCAR 100: 50 years of AMSAT-DL in service to science, research and education" will take place at the Bochum Observatory radome. Accommodations are limited, and the booking of the overnight stays is only

possible via the AMSAT-DL store. See <https://amsat-dl.org/en/ticket-sales-festive-conference-50-years-amsat-dl/> for more information.

[ANS thanks AMSAT-UK and AMSAT-DL for the above information]

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Want to fly the colors on your own grid expedition?
Get your AMSAT car flag and other neat stuff
from our Zazzle store!
25% of the purchase price of each product goes
towards Keeping Amateur Radio in Space
https://www.zazzle.com/amsat_gear

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Changes to AMSAT-NA TLE Distribution for August 11

Two Line Elements or TLEs, often referred to as Keplerian elements or keps in the amateur community, are the inputs to the SGP4 standard mathematical model of spacecraft orbits used by most amateur tracking programs. Weekly updates are completely adequate for most amateur satellites. Elements in the TLE bulletin files are updated daily. TLE bulletin files are updated to add or remove satellites as necessary Thursday evenings around 2300 UTC, or more frequently if new high interest satellites are launched. More information may be found at <https://www.amsat.org/keplerian-elements-resources/>

The following satellite has decayed from orbit and has been removed from this week's AMSAT-NA TLE distribution:

ATHENOXAT-1 NORAD Cat ID 41168 decayed from orbit on 8 August 2023

[ANS thanks Joe Fitzgerald, KM1P, AMSAT Orbital Elements Manager for the above information]

SpaceX Crew 8 Mission to Include Three U.S. Radio Amateurs

Four crew members now are assigned to launch on NASA's SpaceX Crew-8 mission for a long-duration stay aboard the International Space Station. NASA made the announcement on August 4.

NASA astronauts Commander Matthew Dominick, KC0TOR; Pilot Michael Barratt, KD5MIJ; and Mission Specialist Jeanette Epps, KF5QNU; along with Roscosmos cosmonaut Mission Specialist Alexander Grebenkin, will join Expedition 70 and 71 crew members aboard the station in early 2024 to conduct a wide-ranging set of operational and research activities.

This will be the first spaceflight for Dominick, who became a NASA astronaut in 2017. He is from Wheat Ridge, Colorado, and earned a bachelor's degree in electrical engineering from the University of San Diego, California, and a master's in systems engineering from the Naval Postgraduate School in Monterey, California. He is an active-duty U.S. Navy astronaut. He graduated from the U.S. Naval Test Pilot School in Patuxent River, Maryland, and then served as a test pilot specializing in testing landing on and catapult launches from U.S. Navy aircraft carriers.

This will be Barratt's third trip to the space station. In 2009, Barratt served as a flight engineer for Expeditions 19 and 20 as the station transitioned its standard crew complement from three to six, and performed two spacewalks. He flew aboard the space shuttle Discovery in 2011 on

STS-133, which delivered the Permanent Multipurpose Module and fourth Express Logistics Carrier. He has spent a total of 212 days in space. Born in Vancouver, Washington, he considers Camas, Washington, to be his hometown. Barratt earned a bachelor's in zoology from the University of Washington, Seattle, and a doctor of medicine from Northwestern University in Chicago, Illinois. He completed residencies in internal medicine at Northwestern and aerospace medicine along with a master's degree at Wright State University in Dayton, Ohio. After nine years as a NASA flight surgeon and project physician, Barratt joined the astronaut corps in 2000.

This also will be Epps' first trip to the space station. She is from Syracuse, New York, and earned a bachelor's in physics from LeMoyne College in Syracuse, New York, and a master's in science and a doctorate in aerospace engineering from the University of Maryland, College Park. Prior to joining NASA, she worked at Ford Motor Company and the Central Intelligence Agency. She was selected as an astronaut in July 2009, and has served on the Generic Joint Operation Panel working on space station crew efficiency, as a crew support astronaut for two expeditions, and as lead capsule communicator in the Mission Control Center at NASA's Johnson Space Center in Houston. Epps previously was assigned to NASA's Boeing Starliner-1 mission. NASA reassigned Epps to allow Boeing time to complete development of Starliner while also continuing plans for astronauts to gain spaceflight experience for future mission needs.

Grebenkin, who graduated from Irkutsk High Military Aviation School, Irkutsk, Russia, majoring in engineering, maintenance, and repair of aircraft radio navigation systems, also is flying on his first mission. He graduated from Moscow Technical University of Communications and Informatics with a degree in radio communications, broadcasting, and television.

This is the eighth rotational mission to the space station under NASA's Commercial Crew Program, which works with the American aerospace industry to provide safe, reliable, and cost-effective transportation to and from the orbital outpost on American-made rockets and spacecraft launching from American soil.

[ANS thanks NASA and ARISS for the above information]

ARISS NEWS

Amateurs and others around the world may listen in on contacts between amateurs operating in schools and allowing students to interact with astronauts and cosmonauts aboard the International Space Station. The downlink frequency on which to listen is 145.800 MHz worldwide.

No contacts are currently scheduled due to summer school holidays.

The crossband repeater continues to be active (145.990 MHz up {PL 67} & 437.800 MHz down). If any crewmember is so inclined, all they have to do is pick up the microphone, raise the volume up, and talk on the crossband repeater. So give a listen, you just never know.

The packet system is also active (145.825 MHz up & down).

As always, if there is an EVA, a docking, or an undocking; the ARISS radios are turned off as part of the safety protocol.

Note, all times are approximate. It is recommended that you do your own orbital prediction or start listening about 10 minutes before the listed time.

The latest information on the operation mode can be found at
<https://www.ariss.org/current-status-of-iss-stations.html>

The latest list of frequencies in use can be found at
<https://www.ariss.org/contact-the-iss.html>

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors for the above information]

Upcoming Satellite Operations

Lyle, WB7VUF will be in CN73 –and possibly CN83- 12th-13th Aug. Email or DM for skeds.

Phillipe, EA4NF will be QRV as KE4NF from EL94 10th-13th Aug; then EL95 21st-22nd Aug. Pass details as they become available.

Nina, DL2GRC, and family will do a 2 weeks Iceland holiday. Operations can be expected between August 18th to 30th. Please keep in mind, it will be a family holiday and no DX-pedition. Look out for TF/DL4BEN, TF/DL8SCU and TF/DL2GRC.

[ANS thanks Ian Parsons, K5ZM, AMSAT rover page manager, for the above information]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

+ Huntsville Hamfest
August 19 & 20, 2023
Von Braun Center South Hall
700 Monroe St SW, Huntsville, AL 35801
More information at: <https://hamfest.org/>

+ Northeast HamXposition and ARRL New England Division Convention
August 25-27, 2023
Best Western Royal Plaza Hotel
Marlboro, MA
More information at: <https://hamxposition.org/>

+ 41st AMSAT Space Symposium & Annual General Meeting
October 20-21, 2023
Sheraton DFW Airport Hotel
4440 W John Carpenter Fwy, Irving, TX 75063
More information at: <https://launch.amsat.org/event-5363188>

[ANS thanks the AMSAT Events page for the above information]

Satellite Shorts From All Over

+ Crew members who will soon fly aboard NASA's SpaceX Crew-7 mission will enter quarantine Friday in one of the major milestones before they head to the launch site in Florida to start their mission to the International Space Station. The process of flight crew health stabilization is a routine part of final preparations for all missions to the space station. Spending

the final two weeks before liftoff in quarantine will help ensure Crew-7 members are healthy, as well as protect the astronauts already on the space station. Commander Jasmin Moghbeli, KI5WSL; Danish ESA pilot Andreas Mogensen, KG5GCZ; JAXA mission specialist Satoshi Furukawa, KE5DAW; and cosmonaut Konstantin Borisov are now scheduled to launch to the International Space Station on August 25. (ANS thanks NASA for the above information)

+ Two Russian Cosmonauts conducted a spacewalk on August 9 Wednesday to to attach three debris shields to the Rassvet module on the International Space Station. Cosmonauts Sergey Prokopyev and Dmitri Petelin also tested the sturdiness of a work platform that will be affixed to the end of the European robotic arm attached to the Nauka multipurpose laboratory module. NASA livestreamed the seven hour spacewalk on YouTube, its website and on the NASA app. As always, ARISS amateur radio operations were suspended during the EVA. (ANS thanks Space Daily for the above information)

+ Russia reignited its moon exploration program on August 10, sending a lander toward Earth's nearest neighbor. The Luna-25 mission lifted off at 23:10 GMT after being delayed for nearly two years. The launch picked up where the former Soviet Union left off in 1976, when Luna-24 successfully delivered about 6.2 ounces (170 grams) of moon samples to Earth. But that was then. Luna-25 is the first domestically produced moon probe in modern Russian history. If all goes according to plan, Luna-25 will spend the next five days journeying to the moon, then circle the natural satellite for another five to seven days. The spacecraft will then set down in the moon's south polar region, near Boguslawsky Crater. Once down safe and sound, Luna-25 will work on the lunar surface for at least one Earth year. (ANS thanks Space.com for the above information)

+ Also in the race to land on the moon, India's Chandrayaan-3 lunar lander has returned its first images from the moon after entering orbit around our nearest neighbor. The Indian Space Research Organisation (ISRO) released the images on Sunday, August 6, showing that the spacecraft had reached its destination ahead of a lunar landing attempt expected on Aug. 23. If it's successful, India will join the United States, the former Soviet Union and China as the only nations to perform a soft lunar landing. (ANS thanks Space.com for the above information)

+ Virgin Galactic conducted its second-ever commercial mission on August 10, setting a number of spaceflight records in the process. The company launched its "Galactic 02" flight, sending six people to suborbital space and back. Four of them were women, setting a new mark for most women on a single spaceflight, according to Virgin Galactic. They included the first mother-daughter duo (one of whom became the youngest-ever spaceflyer), as well as the first former Olympian, to reach space. (ANS thanks Space.com for the above information)

Join AMSAT today at <https://launch.amsat.org/>

In addition to regular membership, AMSAT offers membership to:

- * Societies (a recognized group, clubs or organization).
- * Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
- * Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
- * Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Mark Johns, KØJM
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